

Site G.E. Rome
PERMIT NO. GA 0024155 20.5
Fresh
Other

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

FILE COPY

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Georgia Water Quality Control Act (Georgia Laws 1964, p. 416, as amended), hereinafter called the "State Act," the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq.), hereinafter called the "Federal Act," and the Rules and Regulations promulgated pursuant to each of these Acts,

GENERAL ELECTRIC COMPANY
Medium Power Transformer Products Department
Redmond Circle, Rome, Georgia 30161

is authorized to discharge from a facility located at

Redmond Circle
Rome, Floyd County, Georgia

to receiving waters unnamed tributary to Horseleg Creek and unnamed tributaries of Little Dry Creek, both tributary to Coosa River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, and III hereof.

This permit shall become effective on December 4, 1987.

This permit and the authorization to discharge shall expire at midnight, December 1, 1992.

Signed this 4th day of December, 1987

10090742



Leonard Lettelle
Director,
Environmental Protection Division

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning effective date and lasting through December 1, 1992, the permittee is authorized to discharge from outfall(s) serial number(s) 001 (storm runoff only) adjacent to Georgia Power Substation.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		
	<u>kg/day(lbs/day)</u>		<u>Other Units(Specify)</u>		<u>Measurement</u>	<u>Sample</u>	<u>Sample</u>
	Daily Avg.	Daily Max.	Daily Avg.	Daily Max.	Frequency	Type	Location
Flow-m ³ Day (MGD)	-	-	-	-	Daily	Total Daily Flow	Final Effluent
Oil & Grease	-	-	10	15	1/Week	Grab	Final Effluent
Polychlorinated Biphenyls*	-	-	***	0.01***	Daily	Composite	Final Effluent
¹ Zinc	-	(1.37)	-	-	1/Quarter	Composite	Final Effluent

There shall be no discharge of floating solids or visible foam in other than trace amounts.

* There shall be no discharge of polychlorinated biphenyl compounds from the General Electric Company property served by this drain during dry weather conditions.

** Samples are to be collected only if there is a discharge during the measuring frequency.

*** See Part III, Special Requirements, Item 6.

¹
See Part III, Special Requirements, Item 7.

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During the period beginning effective date and lasting through December 1, 1992, the permittee is authorized to discharge from outfall(s) serial number(s) 002 (storm runoff only) North of Building 2.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		
	kg/day(lbs/day)		Other Units(Specify)		Measurement	Sample	Sample
	Daily Avg.	Daily Max.	Daily Avg.	Daily Max.	Frequency	Type	Location
Flow-m ³ Day (MGD)	-	-	-	-	Daily	Total Daily Flow	Final Effluer
Oil & Grease	-	-	10	15	2/Month	Grab	Final Effluer
Polychlorinated Biphenyls*	-	-	***	0.01***	Daily	Composite	Final Effluer
¹ Zinc	-	(1.37)	-	-	1/Quarter	Composite	Final Effluer

There shall be no discharge of floating solids or visible foam in other than trace amounts.

* There shall be no discharge of polychlorinated biphenyl compounds from the General Electric Company property served by this drain during dry weather conditions.

** Samples are to be collected only if there is a discharge during the measuring frequency.

*** See Part III, Special Requirements, Item 6.

¹ See Part III, Special Requirements, Item 7.

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During the period beginning effective date and lasting through December 1, 1992, the permittee is authorized to discharge from outfall(s) serial number(s) 003 (storm runoff only) West of Sound Lab.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		
	kg/day(lbs/day)		Other Units(Specify)		Measurement	Sample	Sample
	Daily Avg.	Daily Max.	Daily Avg.	Daily Max.	Frequency	Type	Location
Flow-m ³ Day (MGD)	-	-	-	-	Daily	Total Daily Flow	Final Effluent
Oil & Grease	-	-	10	15	1/Week	Grab	Final Effluent
Polychlorinated Biphenyls*	-	-	***	0.01***	Daily	Composite	Final Effluent
¹ Zinc	-	(3.10)	-	-	1/Quarter	Composite	Final Effluent

There shall be no discharge of floating solids or visible foam in other than trace amounts.

* There shall be no discharge of polychlorinated biphenyl compounds from the General Electric Company property served by this drain during dry weather conditions.

** Samples are to be collected only if there is a discharge during the measuring frequency.

*** See Part III, Special Requirements, Item 6.

¹ See Part III, Special Requirements, Item 7.

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During the period beginning effective date and lasting through December 1, 1992, the permittee is authorized to discharge from outfall(s) serial number(s) 004 (groundwater seepage and storm runoff only) adjacent to spray pond.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		
	kg/day(lbs/day)		Other Units(Specify)		Measurement	Sample	Sample
	Daily Avg.	Daily Max.	Daily Avg.	Daily Max.	Frequency	Type	Location
Flow-m ³ Day (MGD)	-	-	-	-	Daily	Total Daily Flow	Final Effluent
Oil & Grease	-	-	10	15	2/Month	Grab	Final Effluent
Polychlorinated Biphenyls*	-	-	***	0.01***	Daily	Composite	Final Effluent
¹ Zinc	-	(4.21)	-	-	1/Quarter	Composite	Final Effluent

There shall be no discharge of floating solids or visible foam in other than trace amounts.

- * There shall be no discharge of polychlorinated biphenyl compounds from the General Electric Company property served by this drain during dry weather conditions.
- ** Samples are to be collected only if there is a discharge during the measuring frequency.
- *** This should be at a point after the confluence of the various non-point sources which form this discharge.
- *** See Part III, Special Requirements, Item 6.
- ¹See Part III, Special Requirements, Item 7.

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B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

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Note: EPD as used herein means the Division of Environmental Protection of the Department of Natural Resources.

C. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Reporting

Monitoring results obtained during the previous months shall be summarized for each month and reported on an Operation Monitoring Report (Form WQ 1.45), postmarked no later than 45 days following the completed reporting period. The first report is due on February 15, 1988.

The EPD may require reporting of additional monitoring results by written notification. Signed copies of these, and all other reports required herein, shall be submitted to the following address:

Georgia Environmental Protection Division
Industrial Wastewater Program
205 Butler Street, S.E., Floyd Towers East
Suite 1070
Atlanta, Georgia 30334

3. Definitions

- a. The "daily average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days sampled during the calendar month when the measurements were made.
- b. The "daily maximum" discharge means the total discharge by weight during any calendar day.
- c. The "daily average" concentration means the arithmetic average of all the daily determinations of concentration made during a calendar month. Daily determinations of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily determination of concentration shall be the arithmetic average (weighted by flow value) of all the samples collected during that calendar day.

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- d. The "daily maximum" concentration means the daily determination of concentration for any calendar day.
- e. "Weighted by flow value" means the summation of each sample concentration times its respective flow in convenient units divided by the sum of the respective flows.
- f. For the purpose of this permit, a calendar day is defined as any consecutive 24-hour period.

4. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304(g) of the Federal Act.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date, and time of sampling;
- b. The dates the analyses were performed;
- c. The person(s) who performed the analyses;
- d. The analytical techniques or methods used; and
- e. The results of all required analyses.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Operation Monitoring Report Form (WQ 1.45). Such increased monitoring frequency shall also be indicated. The EPD may require more frequent monitoring or the monitoring of other pollutants not required in this permit by written notification.

7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained by the permittee for a minimum of three (3) years, or longer if requested by the State Environmental Protection Division.

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A. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges or pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the EPD of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Water Protection Branch of EPD with the following information, in writing, within five (5) days of becoming aware of such condition:

- a. A description of the discharge and cause of noncompliance; and
- b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

3. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

4. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

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5. Bypassing

Any diversion from or bypass of facilities covered by this permit is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage, runoff, or infiltration would damage any facilities necessary for compliance with the effluent limitations and prohibitions of this permit. The permittee shall operate the treatment works, including the treatment plant and total sewer system, to minimize discharge of the pollutants listed in Part I of this permit from combined sewer overflows or bypasses. The permittee shall monitor all overflows and bypasses in the sewer and treatment system. A record of each overflow and bypass shall be kept with information on the location, cause, duration, and peak flow rate. Upon written notification by EPD, the permittee may be required to submit a plan and schedule for reducing bypasses, overflows, and infiltration in the system.

6. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the State.

7. Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. In accordance with the Schedule of Compliance contained in Part I, provide an alternative power source sufficient to operate the wastewater control facilities;

or, if such alternative power source is not in existence, and no date for its implementation appears in Part I,

- b. Halt, reduce or otherwise control production and/or all discharges from wastewater control facilities upon the reduction, loss, or failure of the primary source of power to said wastewater control facilities.

B. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the Director of EPD, the Regional Administrator of EPA, and/or their authorized representatives, agents, or employees, upon the presentation of credentials:

- a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

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- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Water Protection Branch of EPD.

3. Availability of Reports

Except for data determined by the Director of EPD to be confidential under Section 16 of the State Act or the Regional Administrator of the U. S. Environmental Protection Agency under Section 308 of the Federal Act, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the Atlanta office of the EPD. Effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 22(b) of the State Act.

4. Permit Modification

After written notice and opportunity for a hearing, this permit may be modified, suspended, revoked or reissued in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge; or
- d. To comply with any applicable effluent limitation issued pursuant to the order the United States District Court for the District of Columbia issued on June 8, 1976, in Natural Resources Defense Council, Inc. et.al. v. Russell E. Train, 8 ERC 2120(D.D.C. 1976), if the effluent limitation so issued:
 - (1) is different in conditions or more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.

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5. Toxic Pollutants

Notwithstanding Part II, B-4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Federal Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for this pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition. A draft permit will be provided for review and comments prior to issuance.

6. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

7. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Federal Act.

8. Water Quality Standards

Nothing in this permit shall be construed to preclude the modification of any condition of this permit when it is determined that the effluent limitations specified herein fail to achieve the applicable State water quality standards.

9. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

10. Expiration of Permit

Permittee shall not discharge after the expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information, forms, and fees as are required by the agency authorized to issue permits no later than 180 days prior to the expiration date.

11. Contested Hearings

Any person who is aggrieved or adversely affected by an action of the Director of EPD shall petition the Director for a hearing within thirty (30) days of notice of such action.

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12. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

13. Best Available Technology Economically Achievable

Notwithstanding Part II, B-4 above, if an applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 301(b)2 of the Federal Act for a pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with such effluent standard or prohibition. A draft permit will be provided for review and comments prior to issuance.

14. The permittee will implement best management practices to control the discharge of hazardous and/or toxic materials from ancillary manufacturing activities. Such activities include, but are not limited to, materials storage areas; in-plant transfer, process and material handling areas; loading and unloading operations; plant site runoff; and sludge and waste disposal areas.

PART III

A. PREVIOUS PERMITS

1. All previous State water quality permits issued to this facility, whether for construction or operation, are hereby revoked by the issuance of this permit. This action is taken to assure compliance with the Georgia Water Quality Control Act, as amended, and the Federal Clean Water Act, as amended. Receipt of the permit constitutes notice of such action. The conditions, requirements, terms and provisions of this permit authorizing discharge under the National Pollutant Discharge Elimination System govern discharges from this facility.

B. SPECIAL REQUIREMENTS

1. Polychlorinated biphenyl concentrations and flows discharged to the City of Rome's sewerage system must be monitored on a daily basis. Samples must be collected at a location representative of the total discharge from the General Electric Company property to the City of Rome's sewerage system. The sample must be a representative composite of the discharge for the calendar day. The reported flow is to be the total quantity discharged over the sampling period. The monitoring results must be submitted to the Environmental Protection Division in accordance with Part I, Section C.2 of this permit.
2. The company shall institute a program to clean on a quarterly basis the oil-water separators on Discharge points 001 and 003.
3. During calendar year 1990, a comprehensive storm water runoff study is to be conducted. This study is to identify non-point source contributors which affect the PCB effluent quality. The results of this study will be used to improve the PCB abatement program by eliminating the leaching and runoff from these areas. A report summarizing the results of this study is due on November 15, 1990.
4. An annual report is to be submitted summarizing the effluent PCB data for the previous 12 months with a comparison of the data to the ultimate goal of a zero active PCB discharge concentration.
5. Provisions of 40 CFR 122.41(n)(1)-(4), regarding "Upset" shall be applicable to any civil, criminal, or administrative proceedings brought to enforce this permit.
6. Limitations will be revised upon completion of General Electric's on going PCB Abatement, Engineering and Pilot Plant Study. This study is being conducted under the requirements of Consent Order No. EPD-WQ-1188.
7. The zinc limitation for this outfall is based upon maintaining the required instream zinc concentration from the Georgia Rules and Regulations for Water Quality Control in effect on the issuance date of this permit. Should these Rules and Regulations be revised, the Director may increase the permit limit if appropriate.

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C. BIOMONITORING AND TOXICITY REDUCTION REQUIREMENTS

The permittee may not discharge toxic wastes in concentrations or combinations which are harmful to humans, fish or aquatic life. The permittee shall not discharge an effluent which will kill 10% or more of the exposed test organisms in 96 hours or less, when the test solution contains volumes of effluent and dilution water proportional to the plant design flow and the 7Q10 flow of the receiving stream.

1. If toxicity is suspected in the permittee's effluent, the Division may require the permittee to develop a screening program for whole effluent biomonitoring. The schedule will be as follows for this screening approach:
 - a. Within 90 days of Division notification, a study plan detailing the test methodology and test organisms shall be submitted for conducting forty-eight hour acute static renewal tests of the final effluent. If residual chlorine is present in the final effluent from treatment and/or disinfection processes, a prechlorinated or dechlorinated sample will also be tested.
 - b. Within 90 days of Division approval of the study plan, the permittee shall conduct and submit the results of the forty-eight hour static renewal tests.
2. If toxicity is found in the permittee's effluent based upon the results of the screening process, the permittee shall, within 90 days of written notification by the Division, submit a Toxicity Reduction Evaluation (TRE) plan to the Division. (Note: Toxicity is defined to be a situation in which the effluent quality is such that 10% or more of the test organisms are killed within 96 hours, in a test solution which contains volumes of effluent and dilution water proportional to the plant design flow and the 7Q10 flow of the receiving stream.) The TRE plan shall detail the action the permittee will implement to eliminate toxicity. Within 270 days of Division approval of the TRE plan, the permittee shall complete implementation of the TRE plan and conduct follow-up biomonitoring of the effluent in accordance with the approved TRE plan. If toxicity is still indicated, the permittee shall continue the TRE plan. The TRE plan shall not be complete until the permittee has eliminated the toxicity in its effluent. On a case specific basis, chronic toxicity testing procedures may be required to verify that the toxicity has been eliminated.
3. If toxicity is not indicated initially, or if there are substantial changes in the effluent composition, the permittee may be required to repeat the forty-eight hour static renewal test upon notification by the Division. On a case specific basis, chronic toxicity testing procedures may also be required. Biomonitoring of the effluent will be required at a minimum of once every three years unless otherwise noted.

Upon approval by the Division, all study plans and TRE plans will become part of the requirements of this permit.